

SAMPLING AND ESTIMATION DETAILS FOR THE NEW YORK PORTION OF  
THE NATIONAL INVENTORY OF SOIL AND WATER CONSERVATION NEEDS

BU-188-M

Thomas M. Beetle

July, 1965

Abstract

This paper provides some details on the sampling and estimation procedures for each county in New York. It is intended as a supplement to BU-180-M.

EX-100-1-4

SAMPLING AND ESTIMATION DETAILS FOR THE NEW YORK PORTION OF  
THE NATIONAL INVENTORY OF SOIL AND WATER CONSERVATION NEEDS

BU-188-M

Thomas M. Beetle

July, 1965

New York was the first state for which sample plots were drawn. Thirty-six counties were stratified for geographical coverage without regard for land resource unit boundaries. The relative homogeneity of soil conditions within land resource units suggested that stratification within land resource units within counties would increase the precision of the estimates, and, consequently, sampling for the remaining counties in New York was performed with the increased stratification.

Because of their urban nature, Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond, Rockland, and Westchester Counties were not sampled.

The four numbers under the county name in the following tables denote sample design, sample unit size, sampling rate, and estimation procedure according to the following code:

First  
Number

Sample Design

1

Stratified within county

2

Stratified within land resource  
unit within county

3

Combination of Code 1 and Code 2

Second  
Number

Sample Size

1

100 acres

2

250 acres

3

400 acres

Third  
Number

Approximate sampling rate percentage

Fourth  
Number

Estimation Procedure

1

Single expansion ratio for entire  
county

2

Separate expansion ratio for each  
land resource unit in the county

Water estimates are excluded from the River Basin estimates in all counties.

ALBANY COUNTY, NEW YORK

2, 1, 2, 1

Adjusted Census Ac.

308,204

Adjusted Sample Ac.

6,234

Estimated Ac.

308,203

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	81,910	41,963	134,025	50,265	- -	- -

River Basin - New England Drainage Basin

Estimated Ac.

011200 - Hudson River

253,280

011220 - Mohawk River

15,470

011221 - Schoharie Creek

39,453

Excluded Acreage:

Federal land 801

Urban 29,988

Water 847

ALLEGANY COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

644,223

Adjusted Sample Ac.

13,621

Estimated Ac.

644,195

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	150,120	106,782	265,906	121,385	- -	- -

River Basins - Middle Atlantic Drainage Basin

Great Lakes and St. Lawrence Drainage Basin

Ohio River Drainage Basin

Estimated Ac.

020512 - Chemung River

54,799

040230 - Genesee River

475,718

040300 - Lake Erie

9,190

070100 - Allegheny River

104,488

Excluded Acreage:

Federal land 5,675

Urban 18,372

Water 2,450

BRONX COUNTY, NEW YORK

Not sampled.

BROOME COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

452,262

Adjusted Sample Ac.

9,400

Estimated Ac.

452,286

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	95,083	64,704	226,799	49,284	11,409	5,021

River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020300 - Delaware River

59,489

020510 - Susquehanna River, North Branch

270,754

020511 - Chenango River

117,022

Excluded Acreage:

Federal land 2,138

CATTARAUGUS COUNTY, NEW YORK

1, 1, 2\*, 1

Adjusted Census Ac.

830,380

Adjusted Sample Ac.

15,288

Estimated Ac.

830,400

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	224,668	168,184	376,176	61,442	-	-

River Basins - Great Lakes and St. Lawrence Drainage Basin  
and Ohio River Drainage Basin

Estimated Ac.

040230 - Genesee River	10,865
040300 - Lake Erie	243,956
070100 - Allegheny River	448,637
070110 - Conewango Creek	127,002

Excluded Acreage:

Urban	23,620
Water	400

Notes: \*Allegany State Park (part of B15a) was sampled at the 1/2% rate.

CAYUGA COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

433,834

Adjusted Sample Ac.

9,236

Estimated Ac.

433,826

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	251,038	51,746	79,132	51,855	-	-

River Basin - Great Lakes and St. Lawrence Drainage Basin

Estimated Ac.

040200 - Lake Ontario	60,108
040222 - Seneca River	373,718

Excluded Acreage:

Urban	12,294
Water	1,232

CHAUTAUQUA COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

689,172

Adjusted Sample Ac.

14,133

Estimated Ac.

689,181

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	210,717	100,605	253,404	85,909	36,904	1,644

River Basins - Great Lakes and St. Lawrence Drainage Basin  
and Ohio River Drainage Basin

Estimated Ac.

040300 - Lake Erie	195,574
070110 - Conewango Creek	359,528
070120 - French Creek	132,435

Excluded Acreage:

Federal land	2,028
--------------	-------

CHEMUNG COUNTY, NEW YORK

1, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>	<u>Estimated Ac.</u>
244,997	5,325	244,985

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	59,822	30,084	125,746	29,328	--	--

<u>River Basins</u> - Middle Atlantic Drainage Basin and Great Lakes and St. Lawrence Drainage Basin	<u>Estimated Ac.</u>
020510 - Susquehanna River, North Branch	35,070
020512 - Chemung River	189,764
040222 - Seneca River	20,151

Excluded Acreage:

Federal land	8
Urban	16,435
Water	2,240

CHENANGO COUNTY, NEW YORK

1, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>	<u>Estimated Ac.</u>
581,120	11,848	581,077

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	143,713	161,105	257,962	15,149	1,044	2,087

<u>River Basin</u> - Middle Atlantic Drainage Basin	<u>Estimated Ac.</u>
020510 - Susquehanna River, North Branch	166,384
020511 - Chenango River	412,606

CLINTON COUNTY, NEW YORK

2, 1, 2\*, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>	<u>Estimated Ac.</u>
655,199	9,598	655,213

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	113,279	49,771	459,644	32,544	--	--

<u>River Basin</u> - Great Lakes and St. Lawrence Drainage Basin	<u>Estimated Ac.</u>
040100 - St. Lawrence River	87,730
040110 - Lake Champlain	567,483

Excluded Acreage:

Federal land	3,924
Urban	17,229
Water	1,408

Notes: \*LRU B3bl was sampled at the 1/2% rate.

COLUMBIA COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

411,520

Adjusted Sample Ac.

8,400

Estimated Ac.

411,506

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	146,650	57,311	167,562	30,667	8,233	1,096

River Basin - New England Drainage Basin

011100 - Housatonic River

011200 - Hudson River

Estimated Ac.

29,871

380,539

CORTLAND COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

301,830

Adjusted Sample Ac.

6,458

Estimated Ac.

301,857

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	80,603	77,205	122,786	20,741	552	- -

River Basins - Middle Atlantic Drainage Basin and  
Great Lakes and St. Lawrence Drainage Basin

020510 - Susquehanna River, North Branch

020511 - Chenango River

040222 - Seneca River

Estimated Ac.

18,385

278,220

5,252

Excluded Acreage:

Federal land 1,793

Urban 17,590

Water 66

DELAWARE COUNTY, NEW YORK

1, 1, 2, 1

Adjusted Census Ac.

927,360

Adjusted Sample Ac.

19,300

Estimated Ac.

927,350

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	129,095	155,867	589,368	43,865	5,719	3,412

River Basins - New England and Middle Atlantic Drainage Basins

011221 - Schoharie Creek

020300 - Delaware River

020310 - Delaware River, East Branch

020510 - Susquehanna River, North Branch

Estimated Ac.

24,023

368,970

358,067

172,878

ADJUSTED

DUTCHESS COUNTY, NEW YORK

2, 1, 2, 2

Adjusted Census Ac.

519,702

Adjusted Sample Ac.

11,038

Estimated Ac.

519,662

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	118,600	59,150	260,346	47,560	32,163	1,834

River Basin - New England Drainage Basin

Estimated Ac.

011100 - Housatonic River

102,330

011200 - Hudson River

415,498

Excluded Acreage:

Federal land 538

ERIE COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

401,505

Adjusted Sample Ac.

11,677

Estimated Ac.

401,481

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	171,602	40,584	133,723	55,539	--	--

River Basin - Great Lakes and St. Lawrence Drainage Basin

Estimated Ac.

040300 - Lake Erie

346,021

040310 - Niagara River

55,460

Excluded Acreage:

Federal land 1,267

Urban 267,402

Water 4,386

ESSEX COUNTY, NEW YORK

2, 1, 2\*, 2

Adjusted Census Ac.

1,139,282

Adjusted Sample Ac.

8,436

Estimated Ac.

1,139,307

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	41,000	22,901	1,018,685	56,717	--	--

River Basins - New England Drainage Basin and  
Great Lakes and St. Lawrence Drainage Basin

Estimated Ac.

011200 - Hudson River

474,982

040110 - Lake Champlain

645,157

040130 - Raquette River

19,168

Excluded Acreage:

Urban 22,982

Water 6,336

Notes: Sample plots were mapped by stereoscope.

\*LRU B3b1 was sampled at the 1/2% rate.

FRANKLIN COUNTY, NEW YORK

2, 1, 2\*, 1\*\*

Adjusted Census Ac.

1,048,612

Adjusted Sample Ac.

9,681

Estimated Ac.

1,048,614

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	85,987	88,437	790,658	83,538	- -	- -

River Basin - Great Lakes and St. Lawrence Drainage Basin

Estimated Ac.

040100 - St. Lawrence River

402,209

040110 - Lake Champlain

187,892

040120 - St. Regis River

287,661

040130 - Raquette River

170,852

Excluded Acreage:

Federal land 10,699

Urban 15,608

Water 3,481

Notes: \*LRU B3b1 was sampled at the 1/2% rate.

\*\*Franklin County was done in two parts, each part being expanded by a separate ratio.

FULTON COUNTY, NEW YORK

1, 1, 2\*, 2

Adjusted Census Ac.

303,418

Adjusted Sample Ac.

3,646

Estimated Ac.

303,413

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	38,675	16,010	211,816	36,923	- -	- -

River Basin - New England Drainage Basin

Estimated Ac.

011210 - Sacandaga River

163,768

011220 - Mohawk River

239,645

Excluded Acreage:

Urban 13,367

Water 1,295

Notes: \*Adirondack State Park Area (parts of LRU B3b1 and B3b2) was sampled at the 1/2% rate.

GENESEE COUNTY, NEW YORK

1, 1, 2, 1

Adjusted Census Ac.

290,278

Adjusted Sample Ac.

6,394

Estimated Ac.

290,273

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	167,009	42,845	47,616	32,764	- -	- -

River Basin - Great Lakes and St. Lawrence Drainage Basin

Estimated Ac.

040200 - Lake Ontario

49,580

040230 - Genesee River

116,579

040310 - Niagara River

124,114

Excluded Acreage:

Urban 28,028

Water 2,334



GREENE COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

398,812

Adjusted Sample Ac.

8,167

Estimated Ac.

398,816

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	34,715	28,557	304,572	30,964	- -	- -

River Basins - New England and Middle Atlantic Drainage Basins

Estimated Ac.

011200 - Hudson River

212,097

011221 - Schoharie Creek

176,722

020300 - Delaware River

9,997

Excluded Acreage:

Urban and Water 19,108

HAMILTON COUNTY, NEW YORK

1, 1, 1/2, 2

Adjusted Census Ac.

1,109,520

Adjusted Sample Ac.

5,179

Estimated Ac.

1,109,495

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	3,641	- -	1,056,152	49,702	- -	- -

River Basins - New England Drainage Basin and  
Great Lakes and St. Lawrence Drainage Basin

Estimated Ac.

011200 - Hudson River

277,212

011210 - Sacandaga River

268,645

011220 - Mohawk River

143,963

040120 - St. Regis River

64,269

040130 - Raquette River

208,873

040210 - Black River

146,533

Excluded Acreage:

Urban and Water 8,560

HERKIMER COUNTY, NEW YORK

2, 1, 2\*, 2

Adjusted Census Ac.

887,516

Adjusted Sample Ac.

10,398

Estimated Ac.

887,520

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	113,289	95,934	632,011	46,333	- -	- -

River Basins - New England Drainage Basin  
Middle Atlantic Drainage Basin  
Great Lakes and St. Lawrence Drainage Basin

Estimated Ac.

011220 - Mohawk River

430,177

020510 - Susquehanna River, North Branch

46,674

040140 - Oswegatchie River

68,549

040210 - Black River

342,120

Excluded Acreage:

Urban 23,151

Water 12,213

Notes: \*LRU B3b1 was sampled at the 1/2% rate.

JEFFERSON COUNTY, NEW YORK

2, 1, 1/2\*, 2

Adjusted Census Ac.

708,220

Adjusted Sample Ac.

5,400

Estimated Ac.

708,225

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	238,465	131,614	234,091	83,965	13,204	6,892

River Basin - Great Lakes and St. Lawrence Drainage Basin

Estimated Ac.

040000 - Great Lakes and St. Lawrence Drainage Basin	317,206
040100 - St. Lawrence River	63,432
040200 - Lake Ontario	287,724
040210 - Black River	32,971

Excluded Acreage:

(No breakdown) 119,300

Notes: \*LRU's B6b1 and B7a3 were sampled at the 1% rate.

KINGS COUNTY, NEW YORK

Not sampled.

LEWIS COUNTY, NEW YORK

2, 1, 2, 2

Adjusted Census Ac.

772,446

Adjusted Sample Ac.

7,579

Estimated Ac.

772,442

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	78,055	78,331	572,618	43,429	- -	- -

River Basins - New England Drainage Basin and

Great Lakes and St. Lawrence Drainage Basin

Estimated Ac.

011220 - Mohawk River	19,067
040100 - St. Lawrence River	58,625
040140 - Oswegatchie River	52,335
040200 - Lake Ontario	62,500
040210 - Black River	503,656
040220 - Oswego River	76,259

Excluded Acreage:

Federal land	39,144
Urban	13,400
Water	2,530

LIVINGSTON COUNTY, NEW YORK

2, 1, 2, 2

Adjusted Census Ac.

404,758

Adjusted Sample Ac.

8,148

Estimated Ac.

404,764

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	219,337	68,673	78,869	29,793	6,796	1,316

River Basins - Middle Atlantic Drainage Basin and  
Great Lakes and St. Lawrence Drainage Basin

Estimated Ac.

020512 - Chemung River

16,058

040230 - Genesee River

387,390

Excluded Acreage:

Federal land 3,573

MADISON COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

423,040

Adjusted Sample Ac.

8,676

Estimated Ac.

423,033

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	161,451	79,101	152,938	26,417	2,678	457

River Basins - New England Drainage Basin  
Middle Atlantic Drainage Basin  
Great Lakes and St. Lawrence Drainage Basin

Estimated Ac.

011220 - Mohawk River

10,355

020510 - Susquehanna River, North Branch

31,124

020511 - Chenango River

166,467

040221 - Oneida River

214,630

Notes: Estimated value includes 3,609 acres of federal land.

MONROE COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

318,002

Adjusted Sample Ac.

7,378

Estimated Ac.

317,975

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	200,141	31,223	37,194	49,420	- -	- -

River Basin - Great Lakes and St. Lawrence Drainage Basin

Estimated Ac.

040200 - Lake Ontario

213,123

040230 - Genesee River

104,852

Excluded Acreage:

Federal land 22

Urban 111,096

Water 1,600

MONTGOMERY COUNTY, NEW YORK

1, 1, 2, 2

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
247,248		5,203		247,260		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	122,097	43,051	63,734	18,337	- -	- -
<u>River Basin</u> - New England Drainage Basin					<u>Estimated Ac.</u>	
011220 - Mohawk River					228,853	
011221 - Schoharie Creek					18,407	
<u>Excluded Acreage:</u>						
Urban	13,651					
Water	861					

Notes: The following land resource units were combined for estimation purposes: B7a6 and B7a2.

NASSAU COUNTY, NEW YORK

Not sampled.

NEW YORK COUNTY, NEW YORK

Not sampled.

NIAGARA COUNTY, NEW YORK

1, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>	<u>Estimated Ac.</u>				
268,302	6,162	268,290				
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	181,618	14,635	34,568	37,466	- -	- -
<u>River Basin</u> - Great Lakes and St. Lawrence Drainage Basin					<u>Estimated Ac.</u>	
040200 - Lake Ontario					198,911	
040310 - Niagara River					69,379	
<u>Excluded Acreage:</u>						
Federal land and Indian Res.		13,822				
Urban		52,856				
Water		6,140				

ONEIDA COUNTY, NEW YORK

1, 1, 2\*, 2

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
757,184		15,258		757,249		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	225,283	137,549	335,403	59,011	- -	- -
<u>River Basins</u> - New England Drainage Basin						<u>Estimated Ac.</u>
Middle Atlantic Drainage Basin						
Great Lakes and St. Lawrence Drainage Basin						
011220 - Mohawk River						363,871
020510 - Susquehanna River, North Branch						25,757
040210 - Black River						103,005
040221 - Oneida River						264,616
<u>Excluded Acreage:</u>						
Federal land		4,434				
Urban		20,237				
Water		3,425				

Notes: \*Adirondack State Park Area was sampled at the 1/2% rate.

ONONDAGA COUNTY, NEW YORK

1, 1, 2, 2

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
437,340		9,333		437,320		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	177,726	64,085	105,469	90,000	- -	- -
<u>River Basins</u> - Middle Atlantic Drainage Basin and						<u>Estimated Ac.</u>
Great Lakes and St. Lawrence Drainage Basin						
020511 - Chenango River						26,120
040220 - Oswego River						18,994
040221 - Oneida River						156,249
040222 - Seneca River						235,957
<u>Excluded Acreage:</u>						
(No breakdown)		69,540				

ONTARIO COUNTY, NEW YORK

1, 1, 2, 1

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
415,360		8,912		415,401		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	213,384	48,623	92,537	49,096	11,420	373
<u>River Basin</u> - Great Lakes and St. Lawrence Drainage Basin						<u>Estimated Ac.</u>
040222 - Seneca River						329,266
040230 - Genesee River						85,762

ORANGE COUNTY, NEW YORK

1, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
468,435	10,093			468,429		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	96,304	54,075	276,793	41,248	- -	- -
<u>River Basins</u> - New England and Middle Atlantic Drainage Basins					<u>Estimated Ac.</u>	
011200 - Hudson River					118,160	
011231 - Wallkill River					241,051	
020000 - Middle Atlantic Drainage Basin					55,837	
020300 - Delaware River					53,381	
<u>Excluded Acreage:</u>						
(No breakdown) 62,125 - (federal, urban, and water)						

ORLEANS COUNTY, NEW YORK

2, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>	<u>Estimated Ac.</u>				
188,438	5,084	188,448.				
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	115,482	19,268	37,842	15,862	- -	- -
<u>River Basin</u> - Great Lakes and St. Lawrence Drainage Basin					<u>Estimated Ac.</u>	
040200 - Lake Ontario					188,448	
<u>Excluded Acreage:</u>						
Urban	63,702					
Water	1,300					

OSWEGO COUNTY, NEW YORK

3, 1, 2\*, 2

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
595,902		9,231		595,879		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	115,296	82,938	306,423	91,221	- -	- -
<u>River Basin</u> - Great Lakes and St. Lawrence Drainage Basin						<u>Estimated Ac.</u>
040200 - Lake Ontario						453,185
040220 - Oswego River						64,985
040221 - Oneida River						77,709
<u>Excluded Acreage:</u>						
Urban	23,454					
Water	164					

Notes: \*LRU's B8a1 and B8a2 were sampled at the 1/2% rate.

OTSEGO COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

615,075

Adjusted Sample Ac.

13,249

Estimated Ac.

615,074

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
------------------	-----------------	----------------	---------------	--------------	--------------	--------------

<u>Estimated Ac.:</u>	113,815	131,589	258,988	110,643	- -	- -
-----------------------	---------	---------	---------	---------	-----	-----

River Basins - New England and Middle Atlantic Drainage Basins

Estimated Ac.

011220 - Mohawk River

9,621

020500 - Susquehanna River

605,453

Excluded Acreage:

Urban 27,335

Water 5,910

PUTNAM COUNTY, NEW YORK

Not sampled.

QUEENS COUNTY, NEW YORK

Not sampled.

RENSSELAER COUNTY, NEW YORK

2, 1, 2\*, 2

Adjusted Census Ac.

425,600

Adjusted Sample Ac.

6,400

Estimated Ac.

425,630

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
------------------	-----------------	----------------	---------------	--------------	--------------	--------------

<u>Estimated Ac.:</u>	92,407	51,617	214,098	54,635	11,263	1,640
-----------------------	--------	--------	---------	--------	--------	-------

River Basin - New England Drainage Basin

Estimated Ac.

011200 - Hudson River

423,990

Notes: \*LRU B9a3 was sampled at the 1/2% rate.

RICHMOND COUNTY, NEW YORK

Not sampled.

ROCKLAND COUNTY, NEW YORK

Not sampled.

ST. LAWRENCE COUNTY, NEW YORK  
2, 1, 1\*, 2

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
1,662,069		12,780		1,662,101		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	263,200	180,607	1,123,937	94,372	- -	- -
<u>River Basin</u> - Great Lakes and St. Lawrence Drainage Basin						<u>Estimated Ac.</u>
040100 - St. Lawrence River						506,123
040120 - St. Regis River						231,528
040130 - Raquette River						326,936
040140 - Oswegatchie River						597,514

<u>Excluded Acreage:</u>	
Federal land	320
Urban	71,935
Water	39,756

Notes: \*LRU's B3b1, B3b2, B6b4, and part of B6b1 were sampled at the 1/2% rate.

Sample plots were mapped by stereoscope.

Data for three samples were not expanded for use in presently existing tables.

SARATOGA COUNTY, NEW YORK  
2, 1, 2\*, 2

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
483,300		7,963		483,304		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	86,007	34,491	349,368	13,442	- -	- -
<u>River Basin</u> - New England Drainage Basin						<u>Estimated Ac.</u>
011200 - Hudson River						304,446
011210 - Sacandaga River						133,387
011220 - Mohawk River						45,471

<u>Excluded Acreage:</u>	
Federal land	8,417
Urban	27,743
Water	1,500

Notes: \*LRU B3b1 was sampled at the 1/2% rate.



SCHENECTADY COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

132,700

Adjusted Sample Ac.

2,800

Estimated Ac.

132,710

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
------------------	-----------------	----------------	---------------	--------------	--------------	--------------

<u>Estimated Ac.:</u>	30,952	14,002	42,085	25,482	19,973	224
-----------------------	--------	--------	--------	--------	--------	-----

River Basin - New England Drainage Basin

Estimated Ac.

011200 - Hudson River

43,038

011220 - Mohawk River

74,195

011221 - Schoharie Creek

15,253

Excluded Acreage:

Federal land 1,062

Notes: The following land resource units were combined for estimation purposes: B9a1 and B8b2.

SCHOHARIE COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

385,570

Adjusted Sample Ac.

8,093

Estimated Ac.

385,563

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
------------------	-----------------	----------------	---------------	--------------	--------------	--------------

<u>Estimated Ac.:</u>	104,620	69,085	162,623	49,220	-	-
-----------------------	---------	--------	---------	--------	---	---

River Basins - New England and Middle Atlantic Drainage Basins

Estimated Ac.

011200 - Hudson River

26,370

011220 - Mohawk River

19,104

011221 - Schoharie Creek

300,513

020510 - Susquehanna River, North Branch

39,576

Excluded Acreage:

Urban 13,390

Water 1,040

Notes: The following land resource units were combined for estimation purposes: B8c and B8d2.

SCHUYLER COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

211,840

Adjusted Sample Ac.

4,309

Estimated Ac.

211,830

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
------------------	-----------------	----------------	---------------	--------------	--------------	--------------

<u>Estimated Ac.:</u>	65,315	32,299	82,274	30,271	1,656	-
-----------------------	--------	--------	--------	--------	-------	---

River Basins - Middle Atlantic Drainage Basin and  
Great Lakes and St. Lawrence Drainage Basin

Estimated Ac.

020510 - Susquehanna River, North Branch

28,322

020511 - Chenango River

11,462

020512 - Chemung River

44,997

040222 - Seneca River

127,049

SENECA COUNTY, NEW YORK

1, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
190,332	4,200			190,333		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	113,537	16,692	36,453	23,285	- -	380
<u>River Basin</u> - Great Lakes and St. Lawrence Drainage Basin						<u>Estimated Ac.</u>
040222 - Seneca River						189,953
<u>Excluded Acreage:</u>						
(No breakdown) 20,875						

STEUBEN COUNTY, NEW YORK

1, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
901,120	18,600			901,172		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	323,959	160,609	304,749	100,261	9,851	1,778
<u>River Basins</u> - Middle Atlantic Drainage Basin and Great Lakes and St. Lawrence Drainage Basin						<u>Estimated Ac.</u>
020512 - Chemung River						414,580
020513 - Tioga River						385,268
040222 - Seneca River						51,517
040230 - Genesee River						48,029

SUFFOLK COUNTY, NEW YORK

2, 1, 1, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
573,680	5,603			573,691		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	69,490	2,896	335,115	33,422	131,511	1,254
<u>River Basin</u>						<u>Estimated Ac.</u>
010000 - New England Drainage Basin						572,437
<u>Excluded Acreage:</u>						
Federal land 16,400						

Notes: Sample plots were mapped by stereoscope.

SULLIVAN COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

589,345

Adjusted Sample Ac.

13,061

Estimated Ac.

589,366

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	38,323	28,641	485,069	37,316	- -	- -

River Basins - New England and Middle Atlantic Drainage Basins

Estimated Ac.

011230 - Rondout Creek

45,039

011231 - Wallkill River

18,806

020300 - Delaware River

437,156

020310 - Delaware River, East Branch

88,365

Excluded Acreage:

Urban and Water 41,695

TIOGA COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

336,000

Adjusted Sample Ac.

7,100

Estimated Ac.

335,986

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	86,246	58,119	146,018	36,220	8,343	1,035

River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020510 - Susquehanna River, North Branch

330,213

020511 - Chenango River

4,738

TOMPKINS COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.

289,163

Adjusted Sample Ac.

6,185

Estimated Ac.

289,171

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	94,597	33,276	109,239	52,074	- -	- -

River Basins - Middle Atlantic Drainage Basin and  
Great Lakes and St. Lawrence Drainage Basin

Estimated Ac.

020510 - Susquehanna River, North Branch

54,592

040222 - Seneca River

234,579

Excluded Acreage:

Federal land 3,196

Urban 21,401

Water 480

ULSTER COUNTY, NEW YORK

1, 1, 2, 2

Adjusted Census Ac.  
693,875

Adjusted Sample Ac.  
14,528

Estimated Ac.  
693,906

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	55,766	13,924	573,236	50,990	- -	- -

River Basins - New England and Middle Atlantic Drainage Basins

Estimated Ac.

011200 - Hudson River	327,039
011230 - Rondout Creek	202,672
011231 - Wallkill River	74,589
020300 - Delaware River	34,498
020310 - Delaware River, East Branch	55,108

Excluded Acreage:

Federal land	600
Urban	32,689
Water	4,356

WARREN COUNTY, NEW YORK

1, 1, 1/2, 1

Adjusted Census Ac.  
533,978

Adjusted Sample Ac.  
2,962

Estimated Ac.  
533,990

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	3,246	16,948	498,296	2,344	13,161	- -

River Basins - New England Drainage Basin and  
Great Lakes and St. Lawrence Drainage Basin

Estimated Ac.

011200 - Hudson River	354,253
011210 - Sacandaga River	108,167
040110 - Lake Champlain	71,570

Excluded Acreage:

Urban	28,750
Water	2,392

WASHINGTON COUNTY, NEW YORK

2, 1, 2\*, 2

Adjusted Census Ac.  
516,505

Adjusted Sample Ac.  
9,315

Estimated Ac.  
516,525

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	147,673	114,511	246,730	7,912	- -	- -

River Basins - New England Drainage Basin and  
Great Lakes and St. Lawrence Drainage Basin

Estimated Ac.

011200 - Hudson River	257,826
040100 - St. Lawrence River	258,699

Excluded Acreage:

Urban	18,000
Water	1,175

Notes: \*LRU B3b1 was sampled at the 1/2% rate.

The following land resource units were combined for estimation purposes: B6a3 and B6a2.

WAYNE COUNTY, NEW YORK  
2, 1, 2, 2

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
388,480		8,299		388,511			
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>	
<u>Estimated Ac.:</u>	200,573	42,916	79,415	60,709	4,806	137	
<u>River Basin</u> - Great Lakes and St. Lawrence Drainage Basin						<u>Estimated Ac.</u>	
040200 - Lake Ontario						181,715	
040222 - Seneca River						206,659	

WESTCHESTER COUNTY, NEW YORK

Not sampled.

WYOMING COUNTY, NEW YORK  
1, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>	<u>Estimated Ac.</u>				
370,420	7,952	370,458				
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	165,755	77,269	101,937	25,539	- -	- -
<u>River Basin</u> - Great Lakes and St. Lawrence Drainage Basin						<u>Estimated Ac.</u>
040230 - Genesee River						196,429
040300 - Lake Erie						112,133
040310 - Niagara River						61,896
<u>Excluded Acreage:</u>						
Urban		10,800				
Water		1,500				

YATES COUNTY, NEW YORK  
1, 1, 2, 2

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
220,160		4,778		220,150			
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>	
<u>Estimated Ac.:</u>	99,732	22,179	60,733	31,727	5,114	654	
<u>River Basins</u> - Middle Atlantic Drainage Basin and Great Lakes and St. Lawrence Drainage Basin						<u>Estimated Ac.</u>	
020512 - Chemung River						5,201	
040222 - Seneca River						214,295	